CIVIL AIM CONSULTANTS & ENGINEERS

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QC ABSTRACT

Nameof Work: Emergency Grants in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Sl. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes	Frequency
1	1:4:8	5.04 Cum	1	1	Cement Sand, Aggregates	One Test Per Lot
2	M20	82.20 Cum	5	5	Concrete Cube Compressive Strength	-
3	CC Blocks - 400x200x200	79.02 Sqm	1	1	Concrete Blocks Compressive Strength	-
4	M25	4.94 Cum	1	1	Concrete Core Compressive Strength	-
5	Steel	0.62 Tonne	1	1	-	-
6	CC Tiles	7.50 Sqm	1	1	-	-

Cubes
0-5 Cum 1Set
6-15 Cum 2Set
16-30 Cum 3Set
31-50 Cum 4Set
Add 1set for extra 50Cum

Suma. N L
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Job No.: CACE/BBMP/SKVW.No.10/2021-22 Date: 10.12.2021

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri. Subbareddy K V,** Contractor, Bangalore.
NAME OF THE WORK	:	Emergency Grants in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE	:	November - 2021
DATE OF TESTING	:	08.12.2021 to 10.12.2021
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	350 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

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Job No.: CACE/BBMP/SKVW.No.10/2021-22

Date : 10.12.2021

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Subbareddy K V,** Contractor, Bangalore.

Name of Work : Emergency Grants in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Date of Testing : 10.12.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	84	8.40	8.40	91.6	90-100
2.36	122	12.20	20.60	79.4	75-100
1.18	184	18.40	39.00	61.0	55-90
600 Micron	156	15.60	54.60	45.4	35-59
300 Micron	225	22.50	77.10	22.9	8-30
150 Micron	166	16.60	93.70	6.3	0-10

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Job No.: CACE/BBMP/SKVW.No.10/2021-22

Date : 10.12.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Subbareddy K V,** Contractor, Bangalore.

Name of Work : Emergency Grants in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Date of Testing : 10.12.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	189	3.8	3.8	96.2	95-100
10	2426	48.5	52.3	47.7	25-55
4.75	1968	39.4	91.7	8.3	0-10

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Job No.: CACE/BBMP/SKVW.No.10/2021-22 Date : 10.12.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Subbareddy K V,** Contractor, Bangalore.

Name of Work : Emergency Grants in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Date of Testing : 10.12.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	194	1.29	1.29	98.71	95-100
20	8256	55.04	56.33	43.67	30-70
10	3250	21.67	78.00	22.00	10-35
4.75	2836	18.91	96.91	3.09	0-5

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Date : 10.12.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Subbareddy K V,** Contractor, Bangalore.

Name of Work : Emergency Grants in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Date of Testing : 10.12.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	194	1.29	1.29	98.71	95-100
20	8256	55.04	56.33	43.67	30-70
10	3250	21.67	78.00	22.00	10-35
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Job No.: CACE/BBMP/SKVW.No.10/2021-22

Date : 13.12.2021

TEST REPORT ON CEMENT CONCRETE BLOCKS

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Subbareddy K V,** Contractor, Bangalore.

Name of the Work : Emergency Grants in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Date of Testing : 13.12.2021

Size of Blocks : 400mm x 200mm x 200mm

Cross Sectional Area : 80000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (N)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	32.6	415.2	5.19	2037.50	Minimum required Compressive Strength of Individual Units 5.00N/mm^2
2	Block 2	33.5	426.3	5.33	2093.75	
3	Block 3	30.9	420.8	5.26	1931.25	
4	Block 4	32.1	419.5	5.24	2006.25	

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Job No.: CACE/BBMP/5 Date : 07.01.2022

TEST REPORT ON PRE-POLISHED DESIGNER CEMENT CONCRETE TILES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Contractor : **Sri. Subbareddy K V,** Contractor, Bangalore.

Name of the Work : Emergency Grants in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Sample ID : Pre-Polished Designer Cement Concrete Tiles 25mm thick

Technical Reference : IS: 1237-1980 (Reaffirmed 2006)

No. of Samples Tested : 12 (Twelve)

Date of Testing : 03.01.2022 to 07.01.2022

I.

Sl. No.	Wet Transverse Strength (N/mm^2)	Average (N/mm^2)	Requirement as per IS: 1237-1980 (Reaffirmed 2006)
1	4.2	3.82	The average wet transverse strength should not be less than 3.0 N/mm^2 when 6 full size tiles are tested.
2	3.5		
3	3.8		
4	3.7		
5	4.1		
6	3.6		

II. WATER ABSORPTION TEST:

Sl. No.	Water Absorption (% by Wt)	Average (% by Wt)	Requirement as per IS: 1237-1980 (Reaffirmed 2006)
1	6.9	7.37	The average percentage of water absorption should not exceed 10% when 6 full size tiles are tested.
2	7.3		
3	7.4		
4	7.8		
5	7.5		
6	7.3		

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III. HARDNESS:

Sl. No.	Moh's scale Hardness No.
1	5
2	5
3	5
4	5
5	5
6	5

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Job No.: CACE/BBMP/SKVW.No.10/2021-22 Date: 04.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	**: Sri. Subbareddy K V,** Contractor, Bangalore.
Name of the work	: Emergency Grants in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.12.2021	04.01.2022	8.168	396.6	17.63
2	28.12.2021	04.01.2022	8.184	405.2	18.01
3	28.12.2021	04.01.2022	8.192	415.2	18.45

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Job No.: CACE/BBMP/SKVW.No.10/2021-22 Date: 25.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Subbareddy K V,** Contractor, Bangalore.

Name of the work : Emergency Grants in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.12.2021	25.01.2022	8.206	609.6	27.09
2	28.12.2021	25.01.2022	8.198	616.2	27.39
3	28.12.2021	25.01.2022	8.188	598.6	26.60

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Job No.: CACE/BBMP/SKVW.No.10/2021-22 Date: 28.12.2021

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Contractor : **Sri. Subbareddy K V,** Contractor, Bangalore.

Name of the work : Emergency Grants in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.12.2021	28.12.2021	8.188	336.3	14.95
2	21.12.2021	28.12.2021	8.165	362.5	16.11
3	21.12.2021	28.12.2021	8.152	349.5	15.53

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Job No.: CACE/BBMP/SKVW.No.10/2021-22 Date: 18.01.2022

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Contractor : **Sri. Subbareddy K V,** Contractor, Bangalore.

Name of the work : Emergency Grants in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.12.2021	18.01.2022	8.196	505.2	22.45
2	21.12.2021	18.01.2022	8.152	516.8	22.97
3	21.12.2021	18.01.2022	8.138	488.9	21.73

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Job No.: CACE/BBMP/SKVW.No.10/2021-22 Date: 28.12.2021

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Contractor : **Sri. Subbareddy K V,** Contractor, Bangalore.

Name of the work : Emergency Grants in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.12.2021	28.12.2021	8.160	336.3	14.95
2	21.12.2021	28.12.2021	8.138	345.2	15.34
3	21.12.2021	28.12.2021	8.149	328.9	14.62

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Job No.: CACE/BBMP/SKVW.No.10/2021-22 Date: 18.01.2022

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Contractor : **Sri. Subbareddy K V,** Contractor, Bangalore.

Name of the work : Emergency Grants in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.12.2021	18.01.2022	8.184	484.6	21.54
2	21.12.2021	18.01.2022	8.165	499.8	22.21
3	21.12.2021	18.01.2022	8.159	505.3	22.46

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3. Any Query regarding the report must be reported within 30 days from the date of testing.

Sunitha .N.K
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Job No.: CACE/BBMP/SKVW.No.10/2021-22 Date: 31.12.2021

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Contractor : **Sri. Subbareddy K V,** Contractor, Bangalore.

Name of the work : Emergency Grants in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.12.2021	31.12.2021	8.196	365.2	16.23
2	24.12.2021	31.12.2021	8.168	346.8	15.41
3	24.12.2021	31.12.2021	8.151	352.9	15.68

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Job No.: CACE/BBMP/SKVW.No.10/2021-22 Date: 21.01.2022

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Contractor : **Sri. Subbareddy K V,** Contractor, Bangalore.

Name of the work : Emergency Grants in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.12.2021	21.01.2022	8.189	509.3	22.64
2	24.12.2021	21.01.2022	8.165	499.6	22.20
3	24.12.2021	21.01.2022	8.152	508.3	22.59

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Job No.: CACE/BBMP/SKVW.No.10/2021-22 Date: 31.12.2021

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Contractor : **Sri. Subbareddy K V,** Contractor, Bangalore.

Name of the work : Emergency Grants in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.12.2021	31.12.2021	8.189	326.3	14.50
2	24.12.2021	31.12.2021	8.165	359.6	15.98
3	24.12.2021	31.12.2021	8.172	334.9	14.88

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Job No.: CACE/BBMP/SKVW.No.10/2021-22 Date: 21.01.2022

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Contractor : **Sri. Subbareddy K V,** Contractor, Bangalore.

Name of the work : Emergency Grants in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.12.2021	21.01.2022	8.189	519.3	23.08
2	24.12.2021	21.01.2022	8.156	500.9	22.26
3	24.12.2021	21.01.2022	8.169	521.5	23.18

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Job No.: CACE/BBMP/SKVW.No.10/2021-22 Date: 31.12.2021

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Contractor : **Sri. Subbareddy K V,** Contractor, Bangalore.

Name of the work : Emergency Grants in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.12.2021	31.12.2021	8.189	356.3	15.84
2	24.12.2021	31.12.2021	8.168	330.6	14.69
3	24.12.2021	31.12.2021	8.154	349.5	15.53

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Date: 21.01.2022

TEST REPORT ON CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Contractor	: **Sri. Subbareddy K V,** Contractor, Bangalore.
Name of the work	: Emergency Grants in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.12.2021	21.01.2022	8.150	500.9	22.26
2	24.12.2021	21.01.2022	8.154	516.2	22.94
3	24.12.2021	21.01.2022	8.168	484.6	21.54

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CACE/BBMP/SKVW.No.10/2021-22

Date : 10.12.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Subbareddy K V,** Contractor, Bangalore.

Name of Work : Emergency Grants in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Date of Testing : 10.12.2021

Material : Sand - Plastering

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	14	1.40	1.40	98.6	95-100
2.36	18	1.80	3.20	96.8	95-100
1.18	39	3.90	7.10	92.9	90-100
600 Micron	70	7.00	14.10	85.9	80-100
300 Micron	265	26.50	40.60	59.4	20-65
150 Micron	515	51.50	92.10	7.9	0-15

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CACE/BBMP/SKVW.No.10/2021-22

Date : 10.12.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

: **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
: **Sri. Subbareddy K V,** Contractor, Bangalore.
Name of Work : Emergency Grants in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.
Date of Testing : 10.12.2021
Material : Sand - Masonry

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	14	1.40	1.40	98.6	90-100
1.18	35	3.50	4.90	95.1	70-100
600 Micron	89	8.90	13.80	86.2	40-100
300 Micron	256	25.60	39.40	60.6	5-70
150 Micron	482	48.20	87.60	12.4	0-15

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Job No.: CACE/BBMP/SKVW.No.10/2021-22 Date : 13.12.2021

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Sri. Subbareddy K V,** Contractor, Bangalore.

Name of Work Emergency Grants in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Steel Dia/Length : ,10mm,12mm " Fe500 TMT Bars"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 13.12.2021

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	10	0.618	559	646	1.16	16.5
2	TMT	12	0.889	568	665	1.17	14

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